Fundus Reading Hood

Client: Dennis G. Hafford

Team Members:  Leah Brandon (Leader)
Adam Dahlen (Communications)
Nathan Kleinhans (BWIG)
Sara Worzella (BSAC)

Advisor: John Webster

November 11 to November 17, 2005

Problem Statement
The goal of this project is to develop a monitor hood that will block ambient light. This hood must comply with the following specifications. The length must be adjustable and extend out 2 ft while keeping the monitor viewable at any length. It must be easily removable with a small footprint when stored, or will open up without requiring any space allowing regular viewing modality. There cannot be a footprint behind the monitor and it must taper to a closed viewing port of approximately 8 1/4” by 2 3/8”. Also, the hood should be self-supporting (no legs when extended) with an adjustable angle of view to allow grader to maintain good posture.

Summary of Team Accomplishments for the week
• Corner pieces cut out
• Main hood components made
• Light intensity analysis of fabrics

Current Week’s Goals
• Continue construction of corner pieces
• Continue construction of Hood
• Begin final presentation preparation

Project Difficulties
• None this week, construction seems to be going well thus far.

Project Schedule
Week1-2 worked on separate project
Week 3 meet with client, literature search, develop PDS as a team
Week 4 brainstorm design ideas
Week 5 decide on three alternative designs
Week 6 work on oral presentations and written report
Week 7 oral presentations: hand in report, PDS, design notebooks
Weeks 8-11 decide upon final design, work on prototype
Weeks 12-14 prepare for final presentations (Dec 2), finish final design
Week 15 hand in written report and notebook to advisor (Dec 7) and final advisor meeting (Dec 9)
Activities

Leah Brandon:
Prototype: 4 hrs
Progress report: .5 hrs
Light intensity analysis: .25 hrs
Total: 4.75 hrs

Adam Dahlen:
Prototype: 5.5 hrs
Light intensity analysis: .25 hrs
Total: 5.75 hrs

Nathan Kleinhans:
Prototype: 2.5 hrs
Light intensity analysis: .25 hrs
Total: 2.75 hrs

Sara Worzella:
Prototype: .5 hrs
Light intensity analysis: .25 hrs
Purchasing materials: .5 hrs
Total: 1.25 hrs

Team Total Hours this week: 14.5 hrs
Team Total Hours to date: 127.83 hrs

Expenses:

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
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<tbody>
<tr>
<td>Velcro</td>
<td>1.99</td>
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<tr>
<td>Thread</td>
<td>1.99</td>
</tr>
<tr>
<td>Suraline Fabric</td>
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<tr>
<td>Ripstop Nylon</td>
<td>8.58</td>
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<tr>
<td>Deco Fabric</td>
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<tr>
<td>Antennas</td>
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<tr>
<td>Steel plates</td>
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<tr>
<td><strong>Total</strong></td>
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